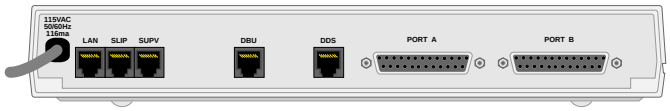
41TDM
Configuration Guide

45-00129
4.0



Specifications

Network Interface

Service Type:	DDS-I or DDS-II clear channel
Operating Modes:	Full duplex, point-to-point, multi-point
Line Rate:	56 and 72 kbps
Loop Range:	Up to 45 dB of loss
Line Connection:	RJ-48C jack, 8-pin modular
Timing Source:	DDS-I: Network, Internal DDS-II: Network
Antistream Timer:	Off, 10, 30, or 60 seconds

Supervisory Port

Connection:	8-pin modular (RS-232)
Data Rates:	1.2, 2.4, 9.6, and 19.2 kbps

SLIP Port

Connection:	8-pin modular (RS-232)
Data Rates:	1.2, 2.4, 9.6, and 19.2 kbps

Ethernet (option)

Connection:	8-pin modular
Network Protocol:	TCP/IP-based networks
Data Rate:	10 Mbps
Compatibility:	10BASE-T, ISO/IEC 8802-3

Token Ring (option)

Connection:	8-pin modular (RJ-45)
Network Protocol:	TCP/IP based networks
Data Rate:	4 or 16 Mbps
Compatibility:	Type 3 UTP, ISO/IEC 8802-5

Dial Backup

Connection:	6-pin modular
Backup Service:	ISDN, sync
Configuration:	Information for backup unit is stored in unit and transmitted to backup unit by inband AT commands.
Dialing:	Numbers programmed and stored in unit and transmitted to backup unit by inband AT commands.
Restoral:	Manual or automatic restoral to leased line service

Diagnostics

Loopbacks:	V.54 (send and receive), alternating loop (DDS-I), latching loop (DDS-II)
BERT:	511 pattern

Alarms

Activation:	Programmable thresholds
Reporting:	Front panel LEDs, call out on alarm (COA), SNMP TRAPs

Power

115 VAC:	116 mA, 8 W max, 27 BTU max

Mechanical

Housing:	Plastic standalone case
Mounting:	Desktop or horizontal rack
Dimensions:	12 inches (30.40 cm) wide 2 inches (5.08 cm) high 9 inches (22.86 cm) deep
Weight:	4 pounds (1.814 kg)

Environmental

Storage Temp:	32° to 122°F (0° to 50°C)
Operating Temp:	–4° to 185°F (–20° to 85°C)
Humidity:	95% maximum (non-condensing)

Compatibility

TR 62310:	November 1987
TR 62310A:	December 1989 (addendum 3)
TR 41450:	November 1981
Internet Standards:	RFC 1157 (SNMP) RFC 1155 (SMI) RFC 1213 (MIB-II) RFC 1055 (SLIP) Enterprise TXPORT MIB Enterprise DDS MIB

DDS-I Port Data Rates

Standard mode

Port A:	Sync onlyat 56 kbps
Port B:	Inactive

Proprietary, non-TDM mode

Port A:	Sync at 2.4, 4.8, 9.6, 19.2, 38.4, or 52 kbps Async at 2.4, 4.8, 9.6, 19.2, 38.4, or 57.6 kbps
Port B:	Inactive

Proprietary, TDM mode

Port A:	Sync at 2.4, 4.8, 9.6, 19.2, or 31.2* kbps Async at 2.4, 4.8, 9.6, 19.2, or 31.2* kbps
Port B:	Sync at 2.4, 4.8, 9.6, 19.2, or 31.2* kbps Async at 2.4, 4.8, 9.6, 19.2, or 31.2* kbps

**Only one port can be set for 31.2 kbps at a time. If Port A is set to 31.2 kbps, Port B is limited to 19.2 kbps. If Port B is set it 31.2 kbps, Port A is limited to 19.2 kbps.*

DDS-II Port Data Rates

Standard mode

Port A:	Sync only at 64 kbps
Port B:	Inactive

Proprietary, non-TDM mode

Port A:	Sync at 2.4, 4.8, 9.6, 19.2, 38.4, 56, 60 kbps Async: at 2.4, 4.8, 9.6, 19.2, 38.4, 56, 57.6 kbps
Port B:	Inactive

Proprietary, TDM mode

Port A:	Sync at 2.4, 4.8, 9.6, 19.2, or 38.4* kbps Async at 2.4, 4.8, 9.6, 19.2, or 38.4* kbps
Port B:	Sync at 2.4, 4.8, 9.6, 19.2, or 38.4* kbps Async at 2.4, 4.8, 9.6, 19.2, or 38.4* kbps

**Only one port can be set for 38.4 kbps at a time. If Port A is set to 38.4 kbps, Port B is limited to 19.2 kbps. If Port B is set it 38.4 kbps, Port A is limited to 19.2 kbps.*

Connections

SUPV/SLIP and DDS Pinout

Pin	SUPV/SLIP	DDS
1	DTR Out	Data Out (Tip)
2	RTS Out	Data Out (Ring)
3	Frame Gnd	
4	Data Out	
5	Data In	
6	Signal Gnd	
7	CTS In	Data In (Tip)
8	DCD In	Data In (Ring)

Port A and Port B Pinouts

ITU Ckt	Name	V.35	RS-232	EIA-530	DCE
101/AA	Frm Gnd	A	1	1	Gnd
102/AB	Sgnl Gnd	B	7	7	Gnd
103/BA	TxD	P, S	2	2, 14	In
104/BB	RxD	R, T	3	3, 16	Out
105/CA	RTS	C	4	4, 19	In
106/CB	CTS	D	5	5, 13	Out
107/CC	DSR	E	6	6, 22	Out
108/CD	DTR	H	20	20, 23	In
109/CF	DCD	F	8	8, 10	Out
114/DB	TC	Y, AA	15	12, 15	Out
115/DD	RC	V, X	17	9, 17	Out
141/LLB	LL		18	18	In
140/RLB	RL		21	21	In
142/TM	Test Mode			25	Out

41TDM Menutree

- Main Menu
  - Network Configuration
    - Mode: DDS-I, TXP-I, TXP-II, DDS-II
    - Rate: 56 K and 56 K
    - Timing: Network and Internal
    - Circuit Assurance: Off and On
    - Antistreaming Timer: ---, 10 seconds, 30 seconds, 60 seconds
    - Alarm Thresholds: FDL, OOS, OOF, LOS, ART
  - DTE Configuration
    - Mode: TDM and STD
    - Port A / Port B
      - Format: Sync and Async
      - Rate: 2.4, 4.8, 9.6, 19.2, 31.2, 38.4, 52, 56, 57.6, 60, 64 kbps
      - Interface: RS-232, V.35, EIA-530
      - DSR: Force T and Test>Off
      - DCD: Force T, Far RTS, Idle>Off
      - RTS: Force On and Normal
      - RTS/CTS Delay: Normal and Long
      - DTR Alarm: Dis and En
      - V54 Loop: Dis and En
      - LL Detect: Dis and En
      - RL Detect: Dis and En
  - SNMP Configuration
    - Unit IP Addr*
    - Router IP Addr*
    - Subnet Mask*
    - Fltr 1–6 Addr*
    - SETs: Enable and Disable
    - Read Community*
    - Write Community*
    - Sys Contact*
    - Sys Name*
    - Sys Location*
    - Reset LAN: No and Yes

    ** An underscore appears under the character to be entered or modified.*
  - Diagnostics
    - Loop Mode: Uni and Bi
    - BERT Function
      - BERT: On and Off
      - Reset: No and Yes
      - SynLos *(display only)*
      - ErrSec *(display only)*
      - BitErr *(display only)*
      - Time: HH:MM:SS *(display only)*
      - Sync
        - No Test *(display only)*
        - In Sync *(display only)*
    - Local Loop: Off and On
    - Far V.54 Loop: Off and On
    - V.54 Loop: Off and On
    - DTE-A Loop: Off and On
    - DTE-B Loop Off and On
  - Utilities
    - Save Configuration: No and Yes
    - SUPV: 1.2 K, 2.4 K, 9.6 K, 19.2 K
    - SLIP: 1.2 K, 2.4 K, 9.6 K, 19.2 K
    - IP Port: SLIP
    - Date: MM/DD/YY
    - Time: HH:MM:SS
    - Contrast: 0–15
  - Status Displays
    - Status: FDL, LOS, OOS, OOF, Idle, Test
    - A: / B:
      - RS, CS, CD, TR, SR

Configuration

EXIT
Press this button on the last character to enter the value and return to the previous screen.

SCROLL
Press this button to increment the characters (a–z, A–Z, 0–9, special characters).

SELECT
Press this button to accept the current value and move the cursor right.

Indicators

TDM
This amber indicator is On when the unit is configured for TDM (Time Division Multiplexer) mode.

TEST
This amber indicator is On when the unit transmits loop code, unloop code, the 511 BERT pattern, or when the unit is placed in a loop mode such as line, data, V.54, etc.

ALARM
This red indicator is On when the unit is in an active alarm condition.

POWER
This green indicator is On when power is applied to the unit.

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